



## VGA COOLER FS-V7



## USER'S MANUAL

[WWW.FATAL1TY.COM](http://WWW.FATAL1TY.COM)

## FATALITY STORY

Who knew that at age 19, I would be a World Champion PC gamer. When I was 13, I actually played competitive billiards in professional tournaments and won four or five games off guys who played at the highest level. I actually thought of making a career of it, but at that young age situations change rapidly. Because I've been blessed with great hand-eye coordination and a grasp of mathematics (an important element in video gaming) I gravitated to that activity.



## GOING PRO

I started professional gaming in 1999 when I entered the CPL (Cyberathlete Professional League) tournament in Dallas and won \$4,000 for coming in third place. Emerging as one of the top players in the United States, a company interested in sponsoring me flew me to Sweden to compete against the top 12 players in the world. I won 18 straight games, lost none, and took first place, becoming the number one ranked Quake III player in the world in the process. Two months later I followed that success by traveling to Dallas and defending my title as the world's best Quake III player, winning the \$40,000 grand prize. From there I entered competitions all over the world, including Singapore, Korea, Germany, Australia, Holland and Brazil in addition to Los Angeles, New York and St. Louis.

## WINNING STREAK

I was excited to showcase my true gaming skills when defending my title as CPL Champion of the year at the CPL Winter 2001 because I would be competing in a totally different first person shooter (fps) game, Alien vs. Predator II. I won that competition and walked away with a new car. The next year I won the same title playing Unreal Tournament 2003, becoming the only three-time CPL champion. And I did it playing a different game each year, something no one else has ever done and a feat of which I am extremely proud.

At QuakeCon 2002, I faced off against my rival ZeRo4 in one of the most highly anticipated matches of the year, winning in a 14 to (-1) killer victory. Competing at Quakecon 2004, I became the World's 1st Doom3 Champion by defeating Daler in a series of very challenging matches and earning \$25,000 for the victory.

## **LIVIN' LARGE**

Since my first big tournament wins, I have been a “Professional Cyberathlete”, traveling the world and livin’ large with lots of international media coverage on outlets such as MTV, ESPN and G4TV to name only a few. It's unreal - it's crazy. I’m living a dream by playing video games for a living. I’ve always been athletic and took sports like hockey and football very seriously, working out and training hard. This discipline helps me become a better gamer and my drive to be the best has opened the doors necessary to become a professional.

## **A DREAM**

Now, another dream is being realized – building the ultimate gaming computer, made up of the best parts under my own brand. Quality hardware makes a huge difference in competitions...a couple more frames per second and everything gets really nice. It's all about getting the computer processing faster and allowing more fluid movement around the maps.

My vision for Fatal1ty hardware is to allow gamers to focus on the game without worrying about their equipment, something I’ve preached since I began competing. I don’t want to worry about my equipment. I want it to be there – over and done with - so I can focus on the game. I want it to be the fastest and most stable computer equipment on the face of the planet, so quality is what Fatal1ty brand products will represent.

## **PARTNERS**

This is just the beginning. We’re already in development for a whole range of new products, and I’m really grateful to all my partners, such as Zalman, for helping make my dreams a reality.

I know there is a business side to all of this, but for me the true reward is making products that are so good I can win with them – and making them available to fellow gamers. Gaming is my life, and many fellow gamers around the world are also some of my best friends, so giving back to the gaming community is really important to me.

A stylized, handwritten signature in black ink. The signature appears to be 'Fatal1ty' with a large, looping 'F' and a '1' that looks like a '4' or a stylized '1'. The signature is written in a cursive, fluid style.

**JOHNATHAN “FATAL1TY” WENDEL**

# User's Manual (English Version)

## 1. Important Notices

- 1.1) Please read this manual thoroughly before installation.
- 1.2) After installing this product on a VGA(Video Graphics Array) card, a PCI slot adjacent to the AGP (or PCIe) slot will become unusable.
- 1.3) Before installing on a newly released VGA card, please check for compatibility at Fatal1ty's website\* or Zalman's website\*\*.
- 1.4) This product is not compatible with Matrox VGA cards and NVIDIA PCX 5\*\*\* VGA cards.
- 1.5) If the VGA card and its components interfere with the installation of this product, stop the installation, refer to the list of compatible VGA cards at Fatal1ty's website\* or Zalman's website\*\*, and install this product with one of the compatible VGA cards.
- 1.6) A rear case fan is recommended for enhancing the performance of this product.

\* [www.fatal1ty.com](http://www.fatal1ty.com)

\*\* [www.zalman.co.kr](http://www.zalman.co.kr)

## Disclaimer

Zalman Tech Co., Ltd., Fatal1ty, Inc., and any of its partners are not responsible for any damages due to external causes, including but not limited to, improper use, problems with electrical power, accident, neglect, alteration, repair, improper installation, or improper testing.

## 2. Features

- 2.1) Pure copper heatsink with ultra large surface area for maximum cooling performance.
- 2.2) 80mm fan (with red LEDs) installed in the heatsink (FHS) cools not only the VGA chipset and VGA RAM, but all other VGA components as well.
- 2.3) Quiet Mode(5V) and Performance Mode(12V) selection provided to accommodate the user's environment and preference.

## 3. Specifications

### 3.1) FHS Assembly (Flower Heatsink & Fan)

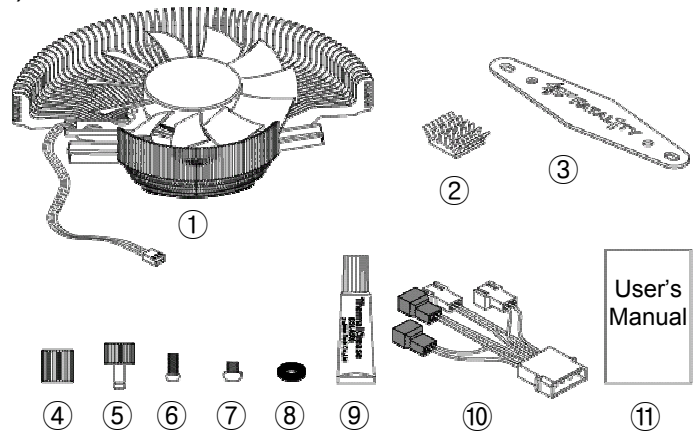
- 3.1.1) Dimensions : 91(L) x 126.4(W) x 30(H)mm
- 3.1.2) Weight : 270g
- 3.1.3) Base Material : Pure Copper

### 3.2) Fan Specifications

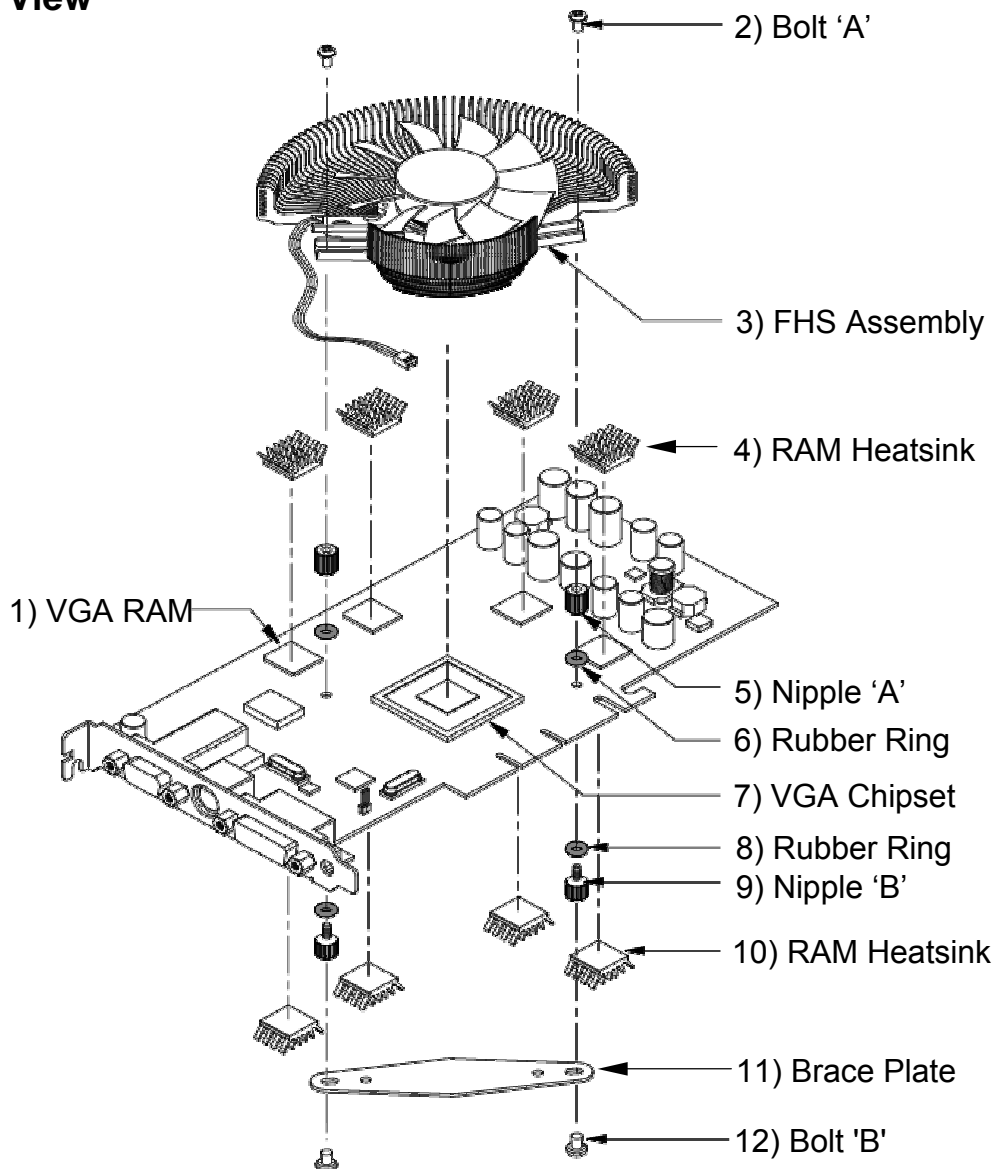
- 3.2.1) Dimensions: 80(L) x 80(W) x 15(H)mm
- 3.2.2) Bearing Type : 2 Ball-Bearing Sets
- 3.2.3) Fan Speed : 2,050 rpm  $\pm$  10% (Quiet Mode), 3,500 rpm  $\pm$  10% (Performance Mode)
- 3.2.4) Noise Level : 23.7 dB  $\pm$  10% (Quiet Mode), 36dB  $\pm$  10% (Performance Mode)

## 4. Components

- ① FHS Assembly(Flower Heatsink & Fan)
- ② Eight (8) RAM Heatsinks
- ③ One (1) Brace Plate
- ④ Two (2) Nipple 'A'
- ⑤ Two (2) Nipple 'B'
- ⑥ Four (4) Bolt 'A' (Ø3 x 5mm)
- ⑦ Four (4) Bolt 'B' (Ø4 x 4mm)
- ⑧ Six (6) Rubber Rings
- ⑨ Thermal Grease
- ⑩ One (1) Multi-Connector
- ⑪ User's Manual

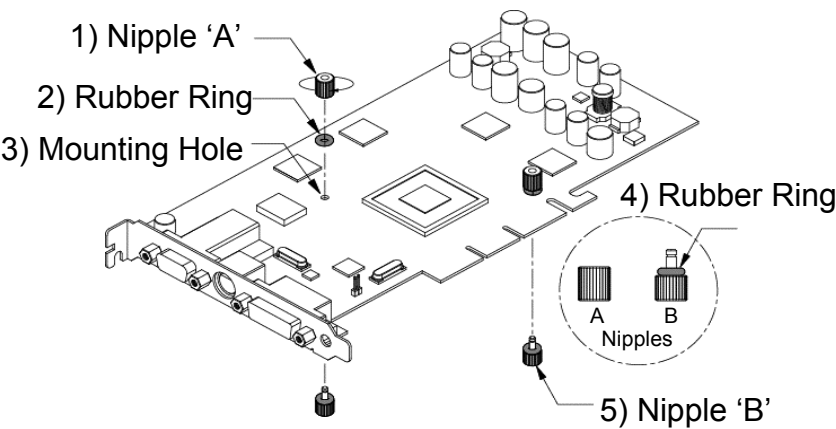


## 5. Exploded View



6. Installation Procedure

※ The following installation sequence MUST be followed.  
(Nipple ‘A’ and ‘B’ → Brace Plate → VGA RAM Heatsinks  
→ Thermal Grease Application → VGA Cooler → VGA Card → Supply Power)



6.1) Install Nipples ‘A’ and ‘B’

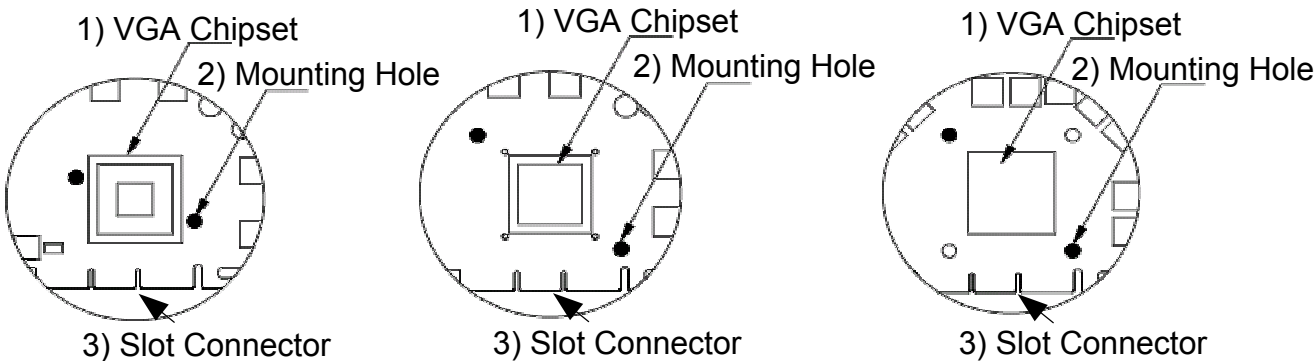
Check the VGA card for compatible installation hole positions. Install Nipple ‘A’ and Nipple ‘B’ on the heatsink Mounting Holes as shown in the diagram. Remember to use Rubber Rings in between.

Warning)

The Nipples MUST be tightened by hand. Using tools to tighten the Nipples may break the tip of the Nipples.

(Nipple Installation Holes for Various VGA Cards)

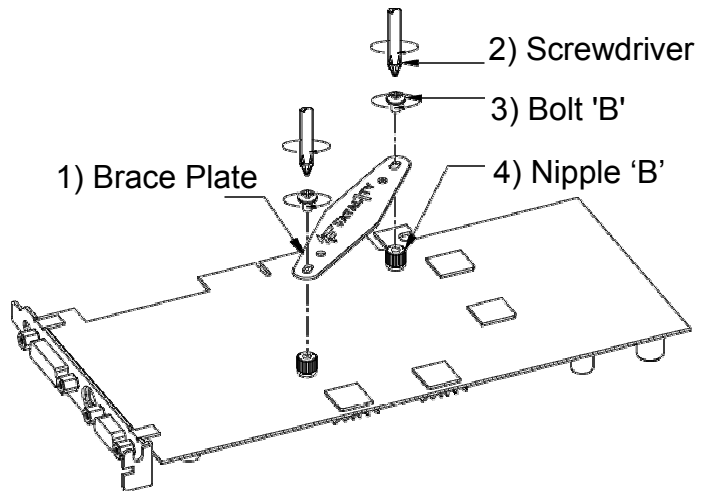
The Nipples must be installed through the Mounting Holes indicated with black holes(●) as shown in the diagram.



ATI Radeon 9 Series ATI Radeon X Series NVIDIA Geforce4 MX Series NVIDIA Geforce FX 5200 NVIDIA Geforce FX 5500 NVIDIA Geforce FX 5600(FX 5700)	NVIDIA Geforce4 Ti 4*** Series NVIDIA Geforce FX 5700(Ultra) Series NVIDIA Geforce FX 5800 Series NVIDIA Geforce FX 5900 Series NVIDIA Geforce FX 5950 Series NVIDIA Geforce 6600 Series	NVIDIA Geforce 6800 LE Series NVIDIA Geforce 6800 Series NVIDIA Geforce 6800 GT Series NVIDIA Geforce 6800 Ultra Series NVIDIA Geforce 6800 Ultra Extreme
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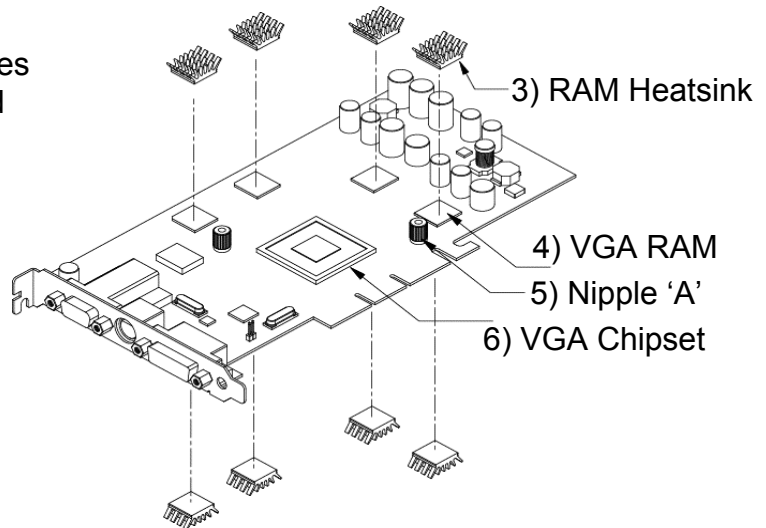
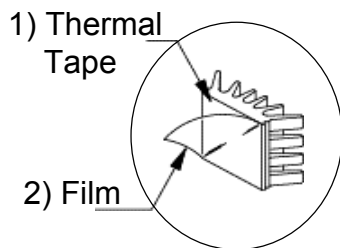
## 6.2) Install the Brace Plate

Use each Bolt 'B' to attach the Brace Plate to each Nipple 'B' as shown in the diagram.



## 6.3) Attach the VGA RAM Heatsinks

Remove the Film from the Thermal Tapes on the bottom of the RAM Heatsinks and attach the heatsinks on the VGA RAM.



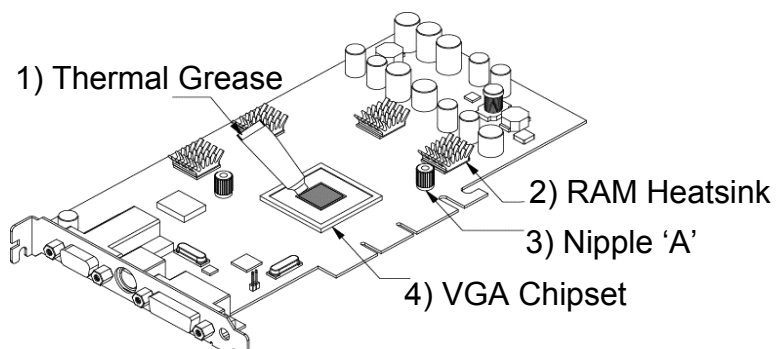
**Note 1)** If Thermal Grease or other residue remains on the RAM, the Thermal Tapes will not stick. Clean the surface of the RAM with acetone or alcohol before attaching.

**Note 2)** The bonding strength of the Thermal Tapes reach 90% after 24 hours of curing. Do not put excessive force on the RAM Heatsinks during this period.

**Note 3)** Thermal Tapes lose adhesiveness after they have been used for attachment once and cannot be reused. New Thermal Tapes should be purchased for later reattachment.

## 6.4) Apply Thermal Grease

Clean the contact surface of the VGA Chipset completely. Apply Thermal Grease on the VGA Chipset's core that makes contact with the base of the FHS Assembly.

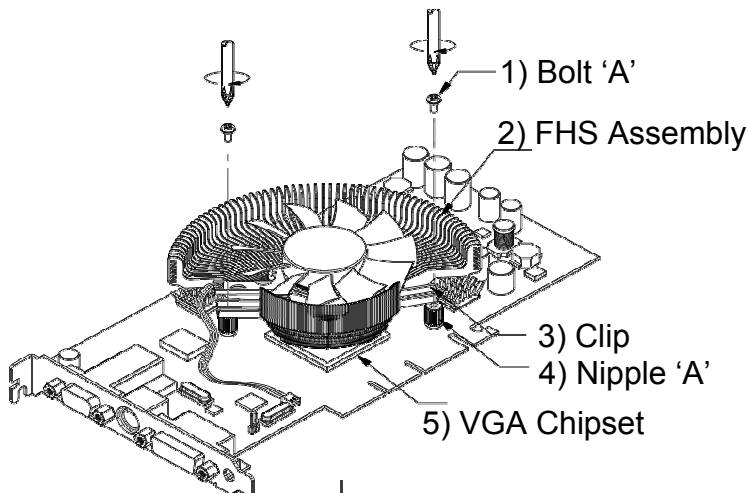


## 6.5) Install the FHS Assembly

Align the FHS Assembly's base on the center of the VGA Chipset. Screw each Bolt 'A' on each Nipple 'A' slightly, and tighten each Bolt 'A' a few turns at a time, alternating between each bolt, until the Clip is completely attached to each Nipple 'A'.

### Note)

Make sure that the heatsink's base and the VGA Chipset are completely in contact with each other.

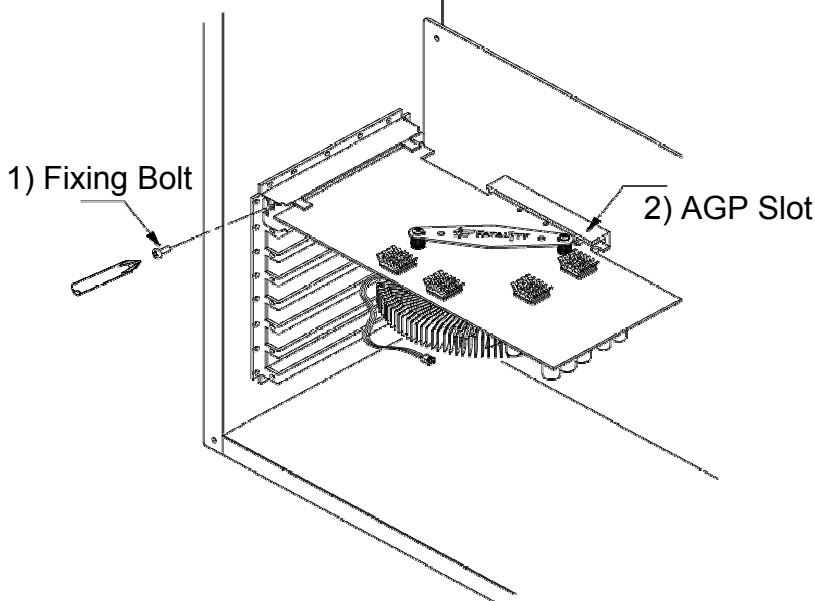


## 6.6) Install the VGA Card

Insert the assembled VGA card into the motherboard's AGP (or PCIe) slot.

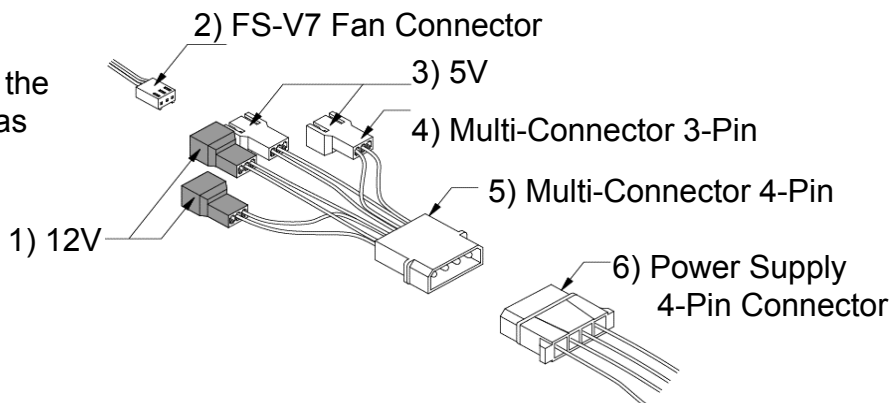
Use the Fixing Bolt to fix the VGA card onto the computer case.

If the VGA card has a power connector on it, remember to plug in the power cable.



## 6.7) Supply Power to the Fan

Connect the Multi-Connector to the power supply's 4-pin connector as shown in the diagram.



	Quiet Mode (5V)	Performance Mode (12V)
Speed	2050 rpm $\pm$ 10%	3,500 rpm $\pm$ 10%
Noise	23.7 dB $\pm$ 10%	36 dB $\pm$ 10%





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